

JVC

Supplementary

SERVICE MANUAL

MODEL

RC-717W, WH

FM-MW-SW1-SW2

4-BAND RADIO

STEREO CASSETTE

RECORDER

Notice:

The tuner and amplifier circuit boards will be changed in the midway of production to mount the parts soldered on the copper side of the circuit board on the component side.



The circuit boards will be changed as follows.

RC-717W

Tuner Circuit Board

After serial No. 10260501

Amplifier Circuit Board

After serial No. 10260501

RC-717WH

Amplifier Circuit Board

After serial No. 12260001

Schematic Diagram of RC-717W,WH (Tuner)

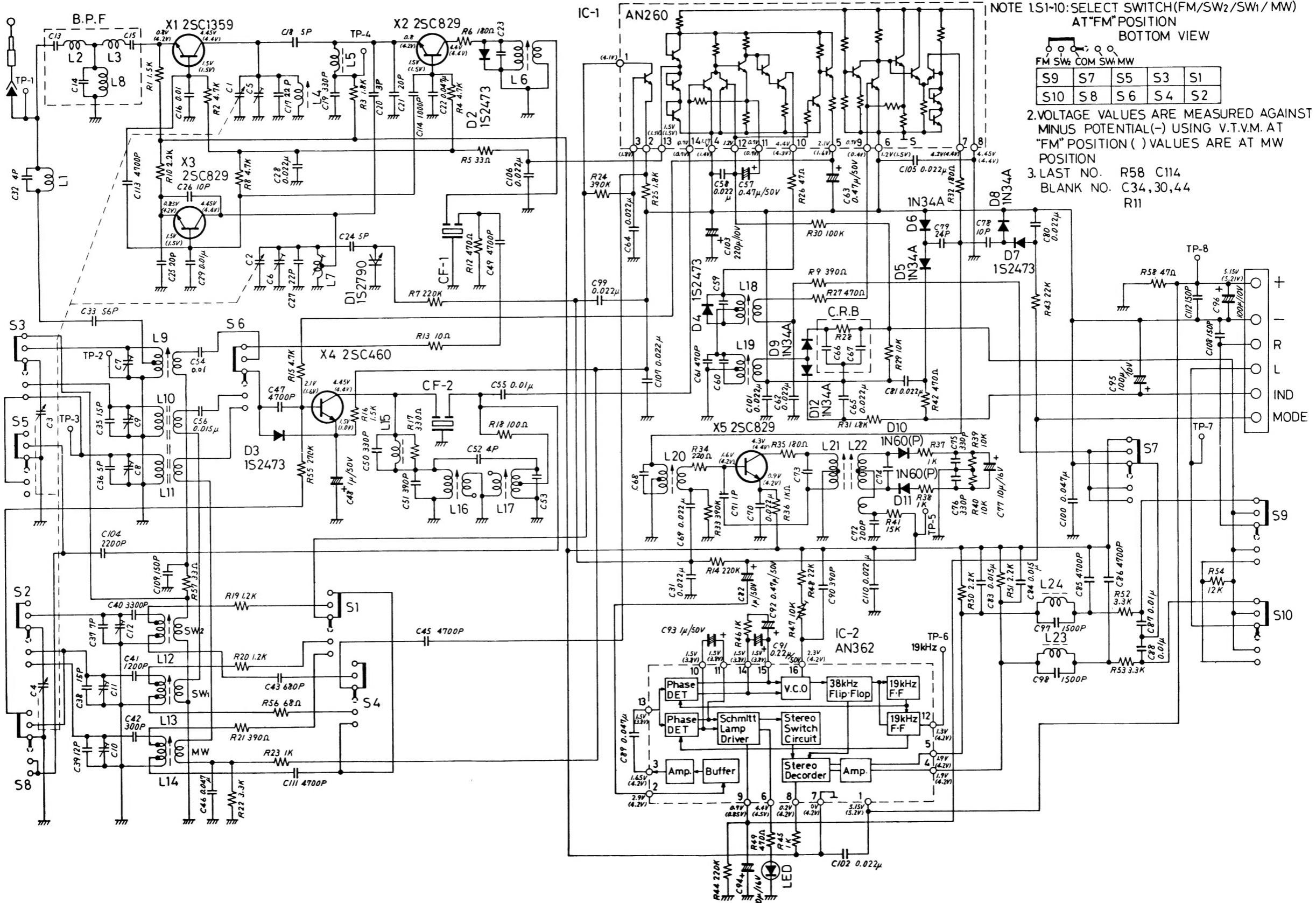


Fig. 1

Tuner Circuit Board Ass'y

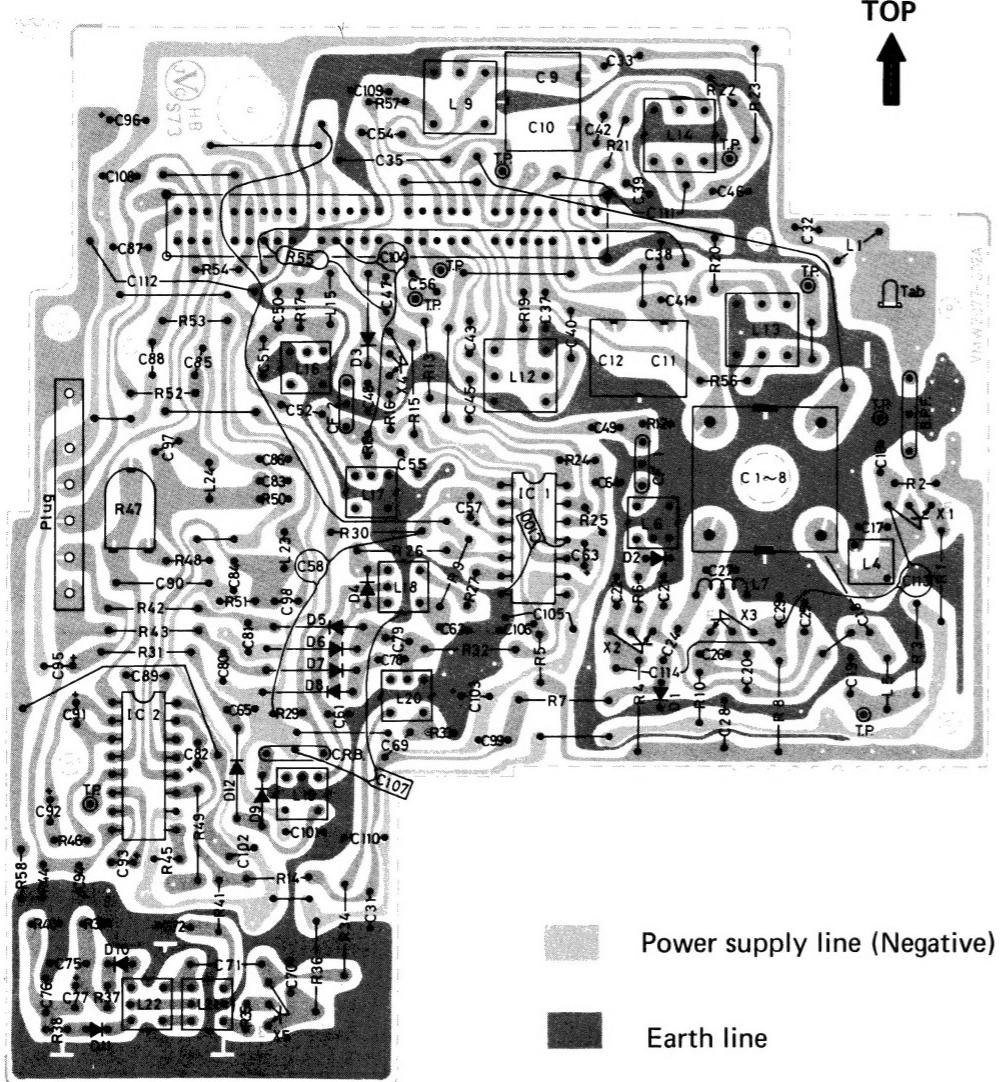


Fig. 2

Transistors

Ref. No.	Parts No.	Description	Pc	fT
X1,	2SC1359(B)	Silicon (MATSUSHITA)	0.25W	300MHz
X2,3,5	2SC829(C)	" (")	"	230MHz
X4	2SC460(C)	" (HITACHI)	0.2W	"

ICs & Diodes

Ref. No.	Parts No.	Parts Name	Description
IC1	AN260	Integrated Circuit	MATSUSHITA (FM/AM IF)
IC2	AN362	"	(MPX)
D1	1S2790	Variable Capacitance Diode	HITACHI
D2,3,4,7	1S2473	Silicon Diode	TOYO DENGU
D5,6,8,9,12	1N34A or 1K34A	Germanium Diode	HITACHI
D10,11	1N60(P)	"	"

Resistors

Ref. No.	Parts No.	Parts Name	Description
R1	QRD141K-152	Carbon	1.5kΩ 1/4W
R2	QRD143K-472	"	4.7kΩ "
R3	QRD141K-182	"	1.8kΩ "
R4,8,15	" -472	"	4.7kΩ "
R5	QRD143K-330	"	33Ω "
R6	" -181	"	180Ω "
R7	QRD141K-224	"	220kΩ "
R9	QRD143K-391	"	390Ω "
R10	" -222	"	2.2kΩ "
R12,27	" -471	"	470Ω "
R13	" -100	"	10Ω "
R14	" -224	"	220kΩ "
R16	" -152	"	1.5kΩ "
R17	" -331	"	330Ω "
R18	" -101	"	100Ω "
R19	" -122	"	1.2kΩ "
R20	" -122	"	1.2kΩ "
R21	" -391	"	390Ω "
R22	" -332	"	3.3kΩ "
R23,36	QRD141K-102	"	1kΩ "
R24,33	QRD143K-394	"	390kΩ "
R25	" -182	"	1.8kΩ "
R26	QRD141K-470	"	47Ω "
R29	QRD143K-103	"	10kΩ "
R30	QRD141K-104	"	100kΩ "
R31	" -182	"	1.8kΩ "
R32	" -181	"	180Ω "
R34	" -221	"	220Ω "
R35	QRD143K-181	"	180Ω "
R37,38,45,46	" -102	"	1kΩ "
R39,40	" -103	"	10kΩ "
R41	QRD141K-153	"	15kΩ "
R42,49	" -471	"	470Ω "
R43	" -223	"	22kΩ "

Ref. No.	Parts No.	Parts Name	Description	
R44	QRD143K-224	Carbon	220kΩ	1/4W
R47	QVP8A0B-014	Variable	10kΩ	B-curve
R48	QRD143K-223	Carbon	22kΩ	1/4W
R50,51	" -222	"	2.2kΩ	"
R52,53	" -332	"	3.3kΩ	"
R54	" -123	"	12kΩ	"
R55	" -274	"	270kΩ	"
R56	" -680	"	68Ω	"
R57	" -330	"	33Ω	"
R58	" -470	"	47Ω	"

Capacitors

Ref. No.	Parts No.	Parts Name	Description	
C1~8	QAP1224-504	Variable		
C9-10,11-12	QAT2002-001	Trimmer		
C16,29	QCF11EZ-103	Ceramic	0.01μF	25V
C17	QCS11HK-220	"	22pF	50V
C18	" -5R0	"	5pF	"
C19	QCS11HJ-331	"	330pF	"
C20	QCS11HK-3R0	"	3pF	"
C21,25	" -200	"	20pF	"
C22	QCF11EZ-473	"	0.047μF	25V
C24,36	QCS11HK-5R0	"	5pF	50V
C26	" -100	"	10pF	"
C27	QCT05CH-220	"	22pF	"
C28	QCF11EZ-223	"	0.022μF	25V
C31	QFM41HM-223	Mylar	"	50V
C32	QCS11HK-4R0	Ceramic	4pF	"
C33	" -560	"	56pF	"
C35,38	" -150	"	15pF	"
C37	" -7R0	"	7pF	"
C39	" -120	"	12pF	"
C40	QFS41HJ-332	Polystyrol	3300pF	"
C41	" -122	"	1200pF	"
C42	" -301	"	300pF	"
C43	QCY41HK-681	Ceramic	680pF	"
C45,47,49	" -472	"	4700pF	"
C46	QCF11EZ-473	"	0.047μF	25V
C48	QEWF41HA-105	Electrolytic	1μF	50V
C50	QCS11HJ-331	Ceramic	330pF	"
C51	" -391	"	390pF	"
C52	QCS11HK-4R0	"	4pF	"
C54	QFM41HK-103	Mylar	0.01μF	"
C55	QCF11EZ-103	Ceramic	"	25V
C56	QFM41HK-153	Mylar	0.015μF	50V
C57,63	QEWF41HA-474	Electrolytic	0.47μF	"
C58,62	QCF11EZ-223	Ceramic	0.022μF	25V
C61	QCS11HJ-471	"	470pF	50V
C64,65,69,70	QCF11EZ-223	"	0.022μF	25V
C71	QCS11HK-1R0	"	1pF	50V
C72	QCS11HJ-201	"	200pF	"
C75,76	" -331	"	330pF	"

Ref. No.	Parts No.	Parts Name	Description	
C77	QEWF41CA-106	Electrolytic	10μF	16V
C78	QCS11HK-100	Ceramic	10pF	50V
C79	" -240	"	24pF	"
C80,81	QCF11EZ-223	"	0.022μF	25V
C82,93	QEWF41HA-105	Electrolytic	1μF	50V
C83,84	QFM41HK-153	Mylar	0.015μF	"
C85,86	" -472	"	4700pF	"
C87,88	" -103	"	0.01μF	"
C89	QFM41HM-473	"	0.047μF	"
C90	QFS21HJ-391	Polystyrol	390pF	"
C91	QEC81HM-224	Electrolytic	0.22μF	"
C92	" -474	"	0.47μF	"
C94	QEWF41CA-106	"	10μF	16V
C95	QEWF41AA-107	"	100μF	10V
C96	" -108	"	1000μF	"
C97,98	QCY41HK-152	Ceramic	1500pF	50V
C99,	QFM41HM-223	Mylar	0.022μF	"
C100,101,102	" -223	"	0.022μF	"
C103	QEWF41AA-227D09	Electrolytic	220μF	10V
C104	QCY41HK-222	Ceramic	2200pF	50V
C105,107,110	QFM41HM-223	Mylar	0.022μF	"
C106	QCF11EZ-223	Ceramic	"	25V
C108,109	QCS11HK-151	"	150pF	50V
C111	QCY41HK-472	"	4700pF	"
C112	QCS11HK-151	"	150pF	10V
C113	QCF11EZ-472	"	4700pF	25V
C114	QCY41HK-102	"	1000pF	50V

Others

Ref. No.	Parts No.	Parts Name	Description	
L1	V03047-11	Coil	SW2 Antenna	
L4	V03105-018	"	FM RF	
L5,15	03226-1K	Inductor	FM	
L6	VQT7F12-103	I.F.T.	FM Osc.	
L7	V03080-3	Coil	SW2 Antenna	
L9	VQR1014-202	"	SW1 & SW2 Osc.	
L12,13	V03101-025	"	MW Osc.	
L14	VQM1T03-201	"	AM	
L16	VQT7A10-101	I.F.T.	"	
L17	VQT7A11-101	"	FM	
L18	VQT7F11-202	"	AM	
L19	VQT7A11-302	"	FM	
L20	V03068-23	"	"	
L21	VQT7F15-502	"	"	
L22	VQT7F16-602	"	"	
L23,24	03226-18	Inductor	includes L2,3,8 C13~15	
B.P.F.	VBP1M3B-001	Band Pass Filter	FM I.F.	
CF1,2	V03059-3	Ceramic Filter	includes R28, C66, 67	
C.R.B	03126-15	CR Block	BAND	
S1~10	QSS0023-001	Slide Switch	6-pin	
Plug	OMC0629-001	Plug Ass'y		
Tab	V43895-1	Tab		
T.P.	V04041-1	Test Point		
	V43762-003	Shield Case		

Amplifier Circuit Board Ass'y

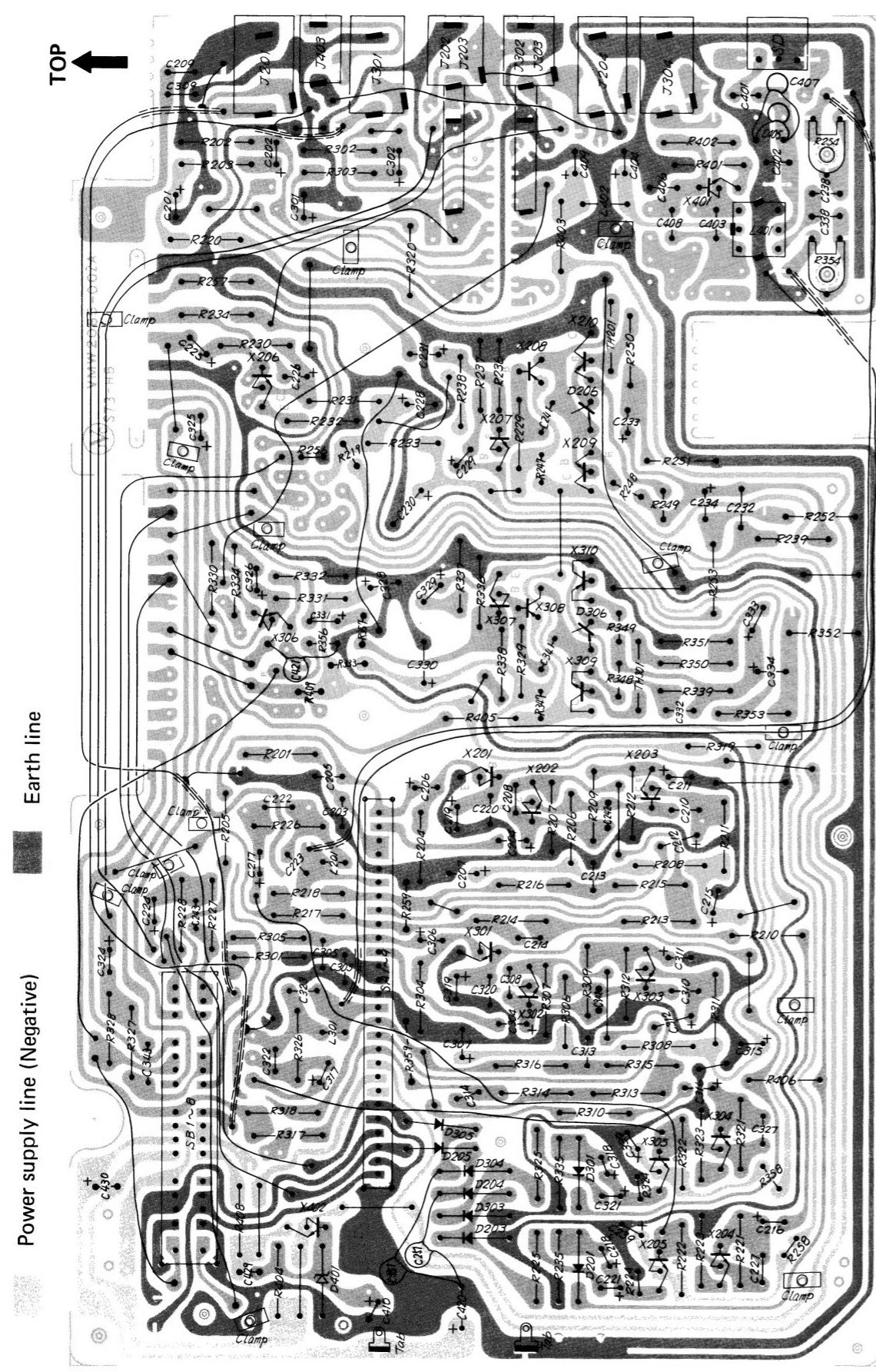


Fig. 3

Transistors

Ref. No.	Parts No.	Description	Pc	fT
X201,301	2SC1335(D,E)	Silicon (HITACHI)	0.2W	230MHz
X202,302	2SC644(R,S)	" (MATSUSHITA)	0.15W	220MHz
X203~207	2SC828(Q,R)	" (")	0.25W	
303~307				
X208,308	2SA564(Q,R)	Silicon (MATSUSHITA)	0.25W	80MHz
X209,309	2SD352(G,H,I)	Germanium (MATSUSHITA)	0.65W	
X210,310	2SB324(G,H,I)	" (")	"	
X401,402	2SD468(B,C)	Silicon (HITACHI)	0.9W	190MHz

Diodes & Thermisters

Ref. No.	Parts No.	Parts Name	Description
D201,301	1S2473	Silicon Diode	TOYO DENGU
D203~205	1N34A or 1K34A	Germanium Diode	HITACHI
303~305			
D206,306	2SB175(A)	Germanium Transistor	MATSUSHITA
D401	HZ6C	Zener Diode	HITACHI
TH201,301	TD5-A082HB	Thermister	TOYO DENGU

Resistors

Ref. No.	Parts No.	Parts Name	Description
R201,301	QRD141K-100	Carbon	10Ω 1/4W
R202,302	" -102	"	1kΩ "
R203,303	" -222	"	2.2kΩ "
R204,206,304,306	" -103	"	10kΩ "
R205,210,305,310	" -272	"	2.7kΩ "
R207,307	" -101	"	100Ω "
R208,308	" -332	"	3.3kΩ "
R209,309	" -104	"	100kΩ "
R211,311	" -182	"	1.8kΩ "
R212,222,312,322	" -561	"	560Ω "
R213,313	" -682	"	6.8kΩ "
R214,314	" -154	"	150kΩ "
R215,216,315,316	" -103	"	10kΩ "
R217,317	" -153	"	15kΩ "
R218,318	" -183	"	18kΩ "
R219,333	QRD143K-331	"	330Ω "
R220,320	QRD141K-822	"	8.2kΩ "
R221,321	" -104	"	100kΩ "
R223,323	" -470	"	47Ω "
R224,324	QRD143K-102	"	1kΩ "
R225,325	QRD141K-681	"	680Ω "
R226,238,326,338	" -153	"	15kΩ "
R227,327	" -684	"	680kΩ "
R228,328	" -333	"	33kΩ "
R229,329	" -222	"	2.2kΩ "
R230,330	" -334	"	330kΩ "
R231,234,331,334	" -562	"	5.6kΩ "
R232,332	" -101	"	100Ω "
R233,319	" -331	"	330Ω "
R235,335	" -102	"	1kΩ "
R236,336	" -393	"	39kΩ "
R237,337	" -150	"	15Ω "
R239,339	" -152	"	1.5kΩ "
R247,347	QRC123K-220	Composition	22Ω 1/2W
R248,249,348,349	QRW123K-R22	Wire Wound	0.22Ω "

Ref. No.	Parts No.	Parts Name	Description	
R250,350	QRD14K-221	Carbon	220Ω	1/4W
R251,252,351,352	" -101	"	100Ω	"
R253,353	" -182	"	1.8kΩ	"
R254,354	QVP8A0B-054	Variable	50kΩ	B-curve
R256,356	QRD143K-473	Carbon	47kΩ	1/4W
R257	QRD141K-561	"	560Ω	"
R258,358	QRD143K-330	"	33Ω	"
R259,359	" -472	"	4.7kΩ	"
R357	" -561	"	560Ω	"
R401,408	QRD141K-4R7	"	47Ω	"
R402	" -183	"	18kΩ	"
R403	" -100	"	10Ω	"
R404	" -271	"	270Ω	"
R405	" -473	"	47kΩ	"
R406	" -222	"	2.2kΩ	"
R409	QRD143K-473	"	47kΩ	"

Ref. No.	Parts No.	Parts Name	Description	
C251,351	QCF11EZ-103	Ceramic	0.01μF	25V
C401	QCY41HK-122	"	1200pF	50V
C402	QFM41HM-822	Mylar	8200pF	"
C403,406	QFM41HK-223	"	0.022μF	"
C404	QEWF41AA-107	Electrolytic	100μF	10V
C405,407,408	QCY41HK-332	Ceramic	3300pF	50V
C409	QEWF41AA-227D09	Electrolytic	220μ	10V
C410	" -108	"	1000μF	"
C420	QEWF41CA-228	"	2200μF	16V
C421	QCS11HK-151	Ceramic	150pF	50V
C429	QCF11EZ-223	"	0.022μF	25V
C430	QEWF41CA-106	Electrolytic	10μF	16V

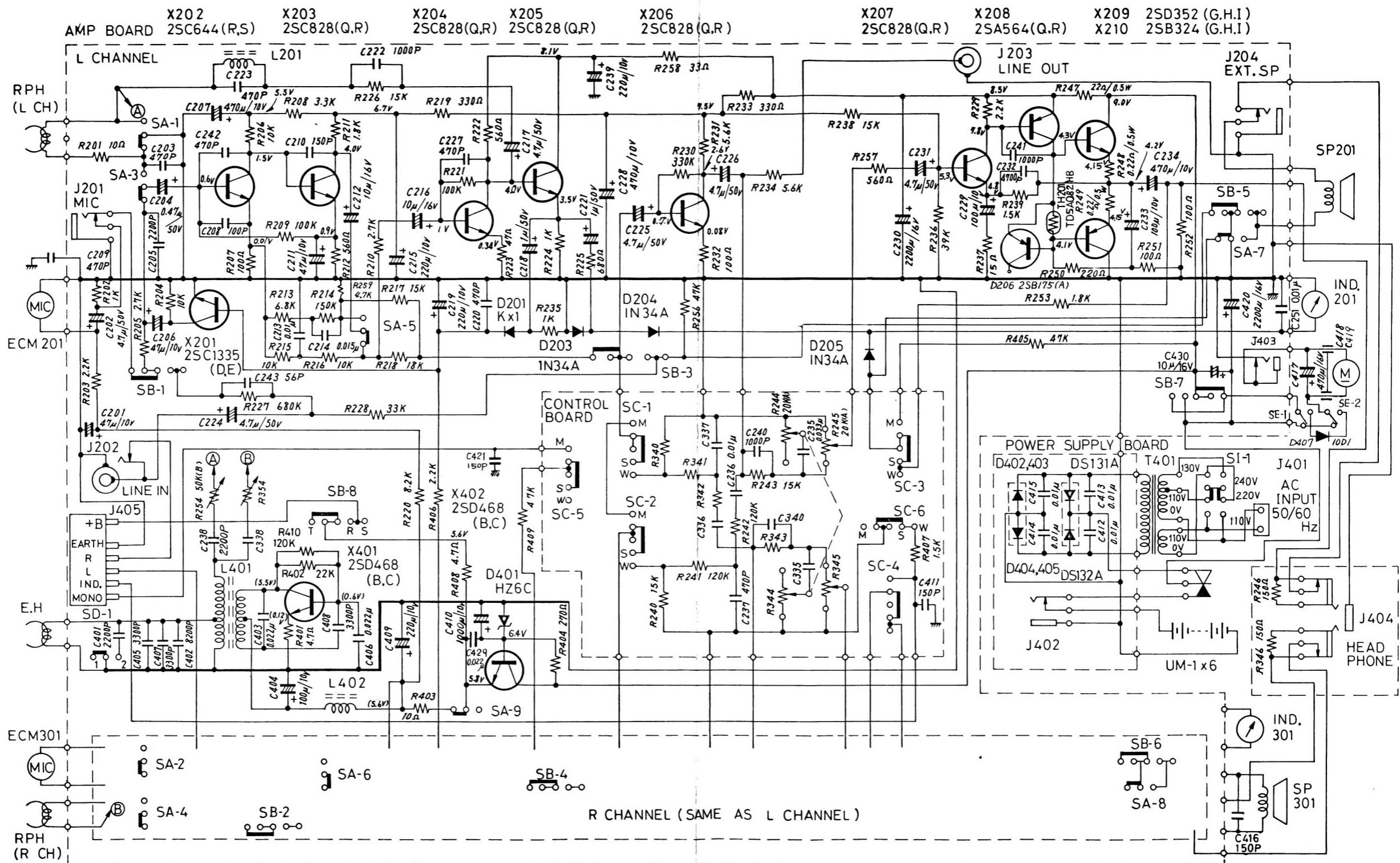
Capacitors

Ref. No.	Parts No.	Parts Name	Description	
C201,206,301,306	QEWF41AA-476	Electrolytic	47μF	10V
C202,217,302,317	QEWF41HA-475	"	4.7μF	50V
C203,303	QCS11HK-471	Ceramic	470pF	"
C204,304	QEWF41HA-474	Electrolytic	0.47μF	"
C205,305	QCY41HK-222	Ceramic	2200pF	"
C207,307	QEWF41AA-477D11	Electrolytic	470μF	10V
C208,308	QCS11HK-101	Ceramic	100pF	50V
C209,309	" -471	"	470pF	"
C210,310	" -151	"	150pF	"
C211,311	QEWF41AA-476	Electrolytic	47μF	10V
C212,216,312,316	QEWF41CA-106	"	10μF	16V
C213,313	QFM41HK-103	Mylar	0.01μF	50V
C214,314	" -153	"	0.015μF	"
C215,219,315,319	QEWF41AA-227D09	Electrolytic	270μF	10V
C218,221,318,321	QEWF41HA-105	"	1μF	50V
C220,223,320,323	QCS11HK-471	Ceramic	470pF	"
C222,322	QCY41HK-102	"	1000pF	"
C224,324	QEWF41HA-475	Electrolytic	4.7μF	"
C225,226,325,326	QEWF41HA-475	"	4.7μF	"
C227,327	QCS11HK-471	Ceramic	470pF	"
C228,234,328,334	QEWF41AA-477D11	Electrolytic	470μF	10V
C229,233,329,333	" -107	"	100μF	"
C230,330	QEWF41CA-228	"	2200pF	16V
C231,331	QEWF41HA-475	"	4.7μF	50V
C232,332	QCY41HK-472	Ceramic	4700pF	"
C238,338	" -222	"	2200pF	"
C239,339	QEWF41AA-227D09	Electrolytic	220μF	10V
C241,341	QCY41HK-102	Ceramic	1000pF	50V
C242,342	QCS11HK-471	"	470pF	"
C243,343	" -560	"	56pF	"

Others

Ref. No.	Parts No.	Parts Name	Description
L201,301	03226-17	Inductor	
L401	V03083-019	Coil	Bias Osc.
L402	03226-2	Inductor	
SA1~9	QSS9201-001	Slide Switch	Play/Record
SB1~8	QSS8301-001	"	Function
J201~204,301~304,402,SD1	V03104-053	Jack Board Ass'y	
Tab	V43895-1	Tab	
Clamp	V44691-001	Wire Clamp	

Schematic Diagram of RC-717W (Amplifier)



NOTE
 SA-1~9 PLAY-REC SWITCH (REC POSITION)
 SI-1 VOLTAGE SELECTOR (AT 220V)
 SB-1~8 TAPE-RADIO SLEEP SWITCH (TAPE POSITION)
 SC-1~5 MONO STEREO WIDE SWITCH (STEREO POSITION)
 SD-1 BEAT CUT SWITCH ('1' POSITION)
 SE-1~2 MOTOR SWITCH (ON POSITION)
 VOLTAGE VALUE ARE MEASURED WITH NO SIGNAL
 USING V.T.V.M. () VALUE ARE AT PEC POSITION.
 LAST NO. R259, 359, 410,
 C251, 361, 430,

Fig. 4